REVISED

OPERATING DATA
FOR THE
MODEL CA-5 ADAPTER
WHEN USED WITH
MODEL 1575
ROLL CHART TUBE TESTER

HICKOK

NOTE 1: (symbol "★" on Roll Chart) Set FUNCTION switch to SHUNT; set SHUNT dial to value indicated, and test tube with respect to RECTIFIER & DIODES OK index mark on the meter scale.

NOTE 2: (symbol "#" on Roll Chart) Press and hold down button P1, then press button P4 (Gm switch) for a reading.

NOTE 3: (symbol "‡" on Roll Chart) Set BIAS VM RANGE toggle switch on 50; adjust BIAS VOLTS control to maximum; hold down button switch P2 or P3 as specified while reducing the bias voltage by means of the BIAS VOLTS control until tube strikes. Tube is satisfactory if reading equals or exceeds RECTIFIERS & DIODES OK index mark at BIAS VOLTS striking point specified under NOTATIONS column.

NOTE 4: (symbol "ϕ" in BIAS VOLTS column on Roll Chart) A resistor of the value indicated in the NOTATIONS column must be used between the SELF BIAS terminals.

NOTE 5: (symbol "@" on Roll Chart) Indicates "Cathode Activity Limit".

NOTE 6: "Cut off" tube section NOT being tested by means of a 30 to 35 volt battery (Eveready 413, or equal). Polarity and connections are indicated in the NOTATIONS column: e. g., NOTE 6: 7-, 2+, indicates connect negative lead to pin 7 and positive lead to pin 2, of any convenient socket on the tester.

CAUTION: Disconnect battery between any change of SELECTORS.

THE HICKOK ELECTRICAL INSTRUMENT CO.
10514 DUPONT AVENUE • CLEVELAND, OHIO 44108

3200-199 REVISED

OPERATING INSTRUCTIONS

for use with

ROLL CHART TUBE TESTERS

To test tubes with the CA-5 Universal Adapter and a Roll Chart Tube Tester, proceed as follows:

a. Connect the adapter to the Roll Chart Tube Tester by inserting the test plug into the Noval socket of the Roll Chart Tube Tester.

b. Set the switches "A", "B" and "C" on the adapter to correspond with the 3-digit number in the column headed "CA5", for the tube to be tested as listed in the Operating Data book. Example: 234 is shown for 6AL11; therefore, set switch "A" on position 2, switch "B" on position 3 and switch "C" on position 4.

c. Proceed to set up the switches and controls of the Roll Chart Tube Tester as shown in the Operating Data book.

d. Place the tube to be tested into the proper socket of the adapter.

e. If the tube to be tested has a top cap, place the top cap connector of the adapter to the cap of the tube and connect the top cap connector of the Roll Chart Tube Tester on the cap connector of the test plug of the adapter cable. The proper cap connector (if any) is shown in the "NOTATIONS" column of the Operating Data book. Example: if the notation column shows "CAP = G" (grid), connect the "G" or "GRID" of the tester with the top cap connector of the Roll Chart Tube Tester to the cap connector of the test plug of the adapter cable. Note: Proper top cap connections to Models 6000 and 6005 Tube Testers are assured by setting the appropriate element selectors to position "X". Example: if "CAP = P" appears in the "NOTATIONS" column, set the plate selector to "X" regardless of the setting specified in the "SELECTORS" column.

f. Turn the Roll Chart Tube Tester on and proceed to test tube in the usual manner as shown in the manual accompanying the particular tester being used. Disregard all references to Hickok Adapter SA-11, code number 1050-177.

TUBE TYPE	FIL.	SELECTORS TESTER	CAS	BIAS VOLTS	FUNCT SHUNT	PUSH	MIN MUT.COND	NOTATIONS
1AD2	1.5	BS-Q000-0	002	0.0	LO-6	P2	----	CAP=P ON ADAPTER. SET FUNCTION SWITCH ON LOW 6000. OK ABOVE 800 ON 6000 SCALE.
2AH2	2.5	BS-0000-0	002	0.0	LO-6	P2	----	CAP=P ON ADAPTER. SET FUNCTION SWITCH ON LOW 6000. OK ABOVE DIODES OK
2AS2	2.5	BS-0000-0	002	0.0	HI-3	P2	----	CAP=P ON ADAPTER. SET FUNCTION SWITCH ON 3000. OK ABOVE 500 ON 3000 SCALE.
2B-H5	2.0	BT-4208-0	103	0.5	LO-15	P4	4400	PLT-SCRN LOW.
2CW4	2.0	BT-4208-0	103	0.5	LO-15	P4	4400	PLT-SCRN LOW
2DS4	2.0	BT-4208-0	103	0.5	LO-15	P4	4000	PLT-SCRN LOW
2DV4	2.0	CT-6107-0	203	1.1	LO-15	P4	5100	PLT-SCRN LOW
2EG4	2.0	BT-4208-0	103	02.0	H1-3	P4	940	ADJUST =LINE TEST TO 91V. PLT-SCRN LOW.
2N-H11	2.0	BT-4208-0	103	0.5	LO-15	P4	4000	PLT-SCRN LOW.
2N-H12	2.0	CT-6107-0	203	01.1	LO-15	P4	5100	PLT-SCRN LOW.
3AT2	3.0	BS-0000-0	002	0.0	HI-3	P2	----	SET FUNCTION SWITCH ON 3000. OBSERVE RECT. & DIODES OK LINE. CAP=P ON ADAPTER.
3AW2	3.0	CR-0000-0	001	0.0	LO-15	P2	----	SET FUNCTION SWITCH ON LOW 15000. OBSERVE RECT. & DIODES OK LINE. CAP=P ON ADAPTER
3BL2	3.0	BS-0000-0	002	0.0	HI-3	P2	----	SET FUNCTION SWITCH ON 3000. OBSERVE RECT. AND DIODES OK LINE. CAP=P ON ADAPTER
3BM2	3.0	BS-0000-0	002	0.0	H1-3	P2		CAP=P. SET FUNCTION SWITCH ON 3000. OBSERVE RECT + DIODES OK LINE.
3BS2	3.0	CR-0000-0	001	0.0	H1-3	P2		SET FUNCTION SWITCH ON 3000. OBSERVE RECT + DIODES OK LINE.
4HA7	4.3	BT-9204-0	203	3.2	LO-6	P4	1750	TRIODE NO. 1
	4.3	BV-4203-0	045	1.0	LO-6	P4	900	TRIODE NO.2
4HC7	4.3	BT-9204-0	203	0.8	LO-6	P4	2600	TRIODE NO.1
	4.3	BV-4203-0	045	1.2	LO-6	P4	1000	TRIODE NO.2
5BC3	5.0	BT-0900-0	000	0.0	SH-78	P3		PLATE NO. 1 NOTE 1
	5.0	BT-0500-0	000	0.0	SH-80	P3		PLATE NO.2 NOTE 1
5HA7	5.0	BT-9204-0	203	3.2	LO-6	P4	1750	TRIODE NO.1
	5.0	BV-4203-0	045	1.0	LO-6	P4	900	TRIODE NO.2
5HC7	5.0	BT-9204-0	203	0.8	LO-6	P4	2600	TRIODE NO.1
	5.0	BV-4203-0	045	1.2	LO-6	P4	1000	TRIODE NO.2
5U9	6.3	FW-3782-4	000	1.4	LO-3	P4	7800	PENTODE SECT. USE HICKOK ADAPTER SA-11 CODE NO. 1050-177
	6.3	FW-2901-0	200	5.0	LO-6	P4	2700	TRIODE SECT.
5V9	5.0	FW-3741-2	000	2.5	LO-6	P4	1700	HEPTODE SECT. USE HICKOK ADAPTER SA-11 CODE NO. 1050-177
	5.0	FW-8109-0	100	2.0	LO-15	P4	5400	TRIODE SECT.
5X9	6.3	FW-3782-4	000	1.7	LO-30	P4	7500	PENTODE SECT. USE HICKOK ADAPTER SA-11 CODE NO. 1050-177
	6.3	FW-2901-0	200	1.0	LO-6	P4	2900	TRIODE SECT.

TUBE TYPE	FIL.	SELECTORS TESTER	SELECTORS CAS	BIAS VOLTS	FUNCT SHUNT	PUSH	MIN MUT.COND	NOTATIONS
6A89	6.3	FW-9781-0	100	2.5	LO-15	P4	5100	TETRODE NO.1 USE HICKOK ADAPTER SA-11 CODE NO. 1050-177
	6.3	FW-3124-0	000	2.5	LO-15	P4	5100	TETRODE NO. 2
6AC9	6.3	BU-9328-7	234	1.5	LO-15	P4	5700	PENTODE SECT.
	6.3	BS-0304-0	002	0.0	SH-74	P1		DIODE NO.1 NOTE 1
	6.3	BU-0203-0	004	0.0	SH-74	P1		DIODE NO.2 NOTE 1
6AC10	6.3	BT-9204-0	203	1.0	LO-15	P4	3800	TRIODE NO.1
	6.3	BS-7506-0	002	1.0	LO-15	P4	3800	TRIODE NO.2
	6.3	BV-4203-0	045	1.0	LO-15	P4	3800	TRIODE NO.3
6AD10	6.3	BU-3762-5	004	3.0	LO-6	P4	1800	PENTODE NO.1
	6.3	BU-8329-0	234	1.5	LO-15	P4	4600	PENTODE NO.2
6AF9	6.3	FW-8197-0	100	3.0	LO-30	P4	7500	PENTODE NO.1 USE HICKOK ADAPTER SA-11 CODE NO. 1050-177
	6.3	FW-1432-0	000	2.0	LO-15	P4	5400	PENTODE NO. 2
6AF11	6.3	BS-6805-0	002	1.3	LO-6	P4	2700	TRIODE NO.1
	6.3	BS-3407-0	002	0.6	LO-6	P4	2000	TRIODE NO.2
	6.3	BV-4239-0	345	2.4	LO-15	P4	6000	PENTODE SECT.
6AG9	6.3	BW-5239-4	356	2.2	LO-30	P4	12600	PENTODE SECT.
	6.3	BS-5706-0	002	2.5	LO-6	P4	2900	TRIODE SECT.
6AG11	6.3	BS-5604-0	002	1.0	LO-15	P4	4900	TRIODE NO.1
	6.3	BS-8709-0	002	1.0	LO-15	P4	4900	TRIODE NO.2
	6.3	BU-0203-0	234	0.0	SH-56	P1		DIODE NO.1, NOTE 1
	6.3	BU-0302-0	004	0.0	SH-56	P1		DIODE NO.2, NOTE 1
6AH9	6.3	BT-5287-9	023	05.0	LO-15	P4	7500	PENTODE SECT.
	6.3	BV-2304-0	005	06.0	HI-3	P4	1500	TRIODE SECT.
6AK9	6.3	BS-8597-0	002	14.0	HI-15	P4	3900	PENTODE SECT.
	6.3	BU-2307-0	234	05.0	HI-3	P4	840	TRIODE NO.1
	6.3	BU-3207-0	004	06.5	HI-3	P4	830	TRIODE NO.2
6AL11	6.3	BU-8329-0	234	2.8	LO-15	P4	3900	PENTODE NO. 1
	6.3	BV-3672-4	005	8.0	HI-3	P4	250	PENTODE NO.2
6AR11	6.3	BU-2893-7	234	0.5	LO-15	P4	5000	PENTODE NO.1
	6.3	BX-5236-4	007	0.5	LO-15	P4	5000	PENTODE NO.2
6AS11	6.3	BV-4239-0	345	5.0	HI-6	P4	3500	PENTODE SECT.
	6.3	BS-6805-0	002	4.5	HI-3	P4	1200	TRIODE NO.1
	6.3	BS-3407-0	002	4.0	HI-3	P4	1200	TRIODE NO. 2
6AV11	6.3	BT-9204-0	203	5.0	HI-3	P4	1300	TRIODE NO.1
	6.3	BS-7506-0	002	5.0	HI-3	P4	1300	TRIODE NO.2
	6.3	BV-4203-0	045	5.0	HI-3	P4	1300	TRIODE NO.3
6AX3	6.3	BS-0407-0	002	0.0	SH-67	P3		NOTE 1
6AY3	6.3	EV-0209-0	000	0.0	SH-78	P3		NOTE 1
6AY11	6.3	BS-8709-0	002	2.0	LO-6	P4	800	TRIODE NO.1
	6.3	BS-5604-0	002	2.0	LO-6	P4	800	TRIODE NO.2
	6.3	BU-0203-0	234	0.0	SH-70	P1		DIODE NO.1, NOTE 1
	6.3	BU-0302-0	004	0.0	SH-70	P1		DIODE NO.2, NOTE 1
6B10	6.3	BS-5607-0	002	4.0	LO-6	P4	1600	TRIODE NO.1
	6.3	BV-3402-0	005	4.0	LO-6	P4	1600	TRIODE NO.2
	6.3	BT-0209-0	203	0.0	SH-59	P1		DIODE NO.1, NOTE 1
	6.3	BS-0809-0	002	0.0	SH-59	P1		DIODE NO.2, NOTE 1
6BA3	6.3	EV-0209-0	000	0.0	SH-81	P3		NOTE 1
6BA11	6.3	BS-4638-7	002	1.0	HI-3	P4	400	PENTODE NO.1
	6.3	BW-4238-5	006	1.0	HI-3	P4	400	PENTODE NO.2
	6.3	BU-9302-0	234	7.0	LO-6	P4	1000	TRIODE SECT.
6BD11	6.3	BV-4239-0	345	2.4	LO-15	P4	5000	PENTODE SECT.
	6.3	BS-6805-0	002	1.3	LO-6	P4	3500	TRIODE NO.1
	6.3	BS-3407-0	002	1.0	LO-6	P4	2750	TRIODE NO.2
6BE3	6.3	BT-0207-0	203	0.0	SH-75	P3		NOTE 1
6BF11	6.3	BU-8329-0	234	8.0	LO-15	P4	4500	PENTODE NO.1
	6.3	BU-3762-5	004	6.5	HI-3	P4	200	PENTODE NO.2
6BH3	6.3	EV-0209-0	000	0.0	SH-80	P3		NOTE 1

TUBE TYPE	FIL.	SELECTORS TESTER	SELECTORS CA5	BIAS VOLTS	FUNCT SHUNT	PUSH	MIN MUT.COND	NOTATIONS
6BH11	6.3	BU-8293-0	234	1.0	LO-15	P4	4700	PENTODE SECT.
	6.3	BS-6705-0	002	1.5	LO-15	P4	5000	TRIODE NO. 1
	6.3	BV-4302-0	005	1.5	LO-15	P4	5000	TRIODE NO.2
6BJ3	6.3	BT-0207-0	203	0.0	SH-80	P3		NOTE 1
6BK11	6.3	BT-9204-0	203	1.9	LO-6	P4	1000	TRIODE NO.1
	6.3	BS-7506-0	002	1.2	LO-6	P4	900	TRIODE NO.2
	6.3	BV-4203-0	045	1.2	LO-6	P4	900	TRIODE NO.3
6BN11	6.3	BU-7398-2	234	1.0	LO-15	P4	6600	PENTODE NO.1
	6.3	BX-3542-6	007	1.0	LO-15	P4	6600	PENTODE NO.2
6BS3	6.3	EV-0209-0	000	0.0	SH-65	P3		NOTE 1
6BV11	6.3	BU-7298-3	234	2.0	LO-6	P4	2300	PENTODE NO.1
	6.3	BX-6345-2	007	2.0	LO-6	P4	2300	PENTODE NO.2
6BW11	6.3	BU-3892-7	234	04.0	LO-15	P4	5350	PENTODE NO.1
	6.3	BX-3542-6	007	0.9	LO-15	P4	8200	PENTODE NO.2
6BZ3	6.3	BT-0207-0	203	0.0	SH-86	P3		NOTE 1
6C9	6.3	EV-7986-0	000	3.6	LO-15	P4	3700	TETRODE NO.1
	6.3	EV-1326-0	600	3.6	LO-15	P4	3700	TETRODE NO.2
6C10	6.3	BT-9204-0	203	1.1	LO-6	P4	950	TRIODE NO.1
	6.3	BS-7506-0	002	1.1	LO-6	P4	950	TRIODE NO.2
	6.3	BV-4203-0	045	1.1	LO-6	P4	950	TRIODE NO.3
6CA11	6.3	BU-8329-7	234	02.0	HI-15	P4	7500	PENTODE SECT
	6.3	BS-6405-0	002	05.0	HI-3	P4	1500	TRIODE NO.1
	6.3	BU-3207-0	004	03.5	HI-3	P4	1500	TRIODE NO.2
6CD3	6.3	BT-0207-0	203	0.0	SH-85	P3		NOTE 1
6CE3	6.3	BS-0407-0	002	0.0	SH-88	P3		NOTE 1
6CG3	6.3	BS-0407-0	002	0.0	SH-85	P3		NOTE 1
6CH3	6.3	EV-0209-0	000	0.0	SH-90	P3		NOTE 1
6CJ3	6.3	EV-2209-0	000	0.0	SH-87	P3		NOTE 1
6CK3	6.3	EV-0209-0	000	0.0	SH-87	P3		NOTE 1
6CL3	6.3	EV-0209-0	000	0.0	SH-87	P3		NOTE 1
6CM3	6.3	EV-0279-0	000	0.0	SH-89	P3		SHORT ON 4, NOTE 1
6CW4	6.3	BT-4208-0	103	0.5	LO-15	P4	4400	PLT-SCRN LOW
6D10	6.3	BT-9204-0	203	1.7	LO-6	P4	2500	TRIODE NO.1
	6.3	BS-7506-0	002	1.7	LO-6	P4	2500	TRIODE NO.2
	6.3	BV-4203-0	045	1.7	LO-6	P4	2500	TRIODE NO.3
6DS4	6.3	BT-4208-0	103	0.5	LO-15	P4	4000	PLT-SCRN LOW
6DV4	6.3	CT-6107-0	203	1.1	LO-15	P4	5100	PLT-SCRN LOW
6DW4	6.3	EV-0209-0	000	0.0	SH-79	P3		NOTE 1
6EA4	6.3	BS-0605-0	002	0.0	SH-35	P1		CAP=G ON ADAPTER, NOTE 1
6EF4	6.3	BS-0605-9	002	0.3	SH-35	P1		CAP=G ON ADAPTER, NOTE 1
6EH4	6.3	BS-0605-0	002	0.0	SH-35	P1		CAP=G ON ADAPTER. NOTE 1
6EJ4	6.3	BS-0605-9	002	0.0	SH-35	P1		CAP=G ON ADAPTER. NOTE 1
6FJ7	6.3	BU-2309-0	234	3.6	LO-6	P4	1500	TRIODE NO.1
	6.3	BS-3507-0	002	2.3	LO-15	P4	4800	TRIODE NO.2
6FM7	6.3	BU-2309-0	234	2.0	LO-6	P4	1250	TRIODE NO.1
	6.3	BS-8507-0	002	24.0	LO-6	P4	2500	TRIODE NO.2
6FY7	6.3	BU-2309-0	234	2.0	LO-6	P4	800	TRIODE NO.1
	6.3	BS-3507-0	002	17.0	LO-6	P4	3100	TRIODE NO.2
6G11	6.3	BU-8329-0	234	17.0	LO-6	P4	2800	PENTODE NO.1
	6.3	BV-3672-4	005	1.5	HI-3	P4	500	PENTODE NO.2
6GA7	6.3	BS-4735-0	002	18.0	LO-6	P4	2900	PENTODE SECT.
	6.3	BT-0208-0	023	0.0	SH-73	P3		DIODE SECT.NOTE 1
6GE5	6.3	BV-4723-0	345	22.0	LO-15	P4	3000	
6GF5	6.3	BV-4723-0	345	24.0	LO-6	P4	2700	
6GF7	6.3	EV-9801-0	000	1.8	LO-6	P4	850	TRIODE NO.1
	6.3	EV-2603-0	000	21.0	LO-6	P4	2750	TRIODE NO.2
6GJ5	6.3	EV-6073-0	000	8.0	HI-15	P1,4	4000	CAP=P ON ADAPTER, NOTE 2
6GT5	6.3	EV-6973-0	000	8.0	HI-15	P1,4	4000	NOTE 2
6GV5	6.3	BU-9032-0	234	17.0	LO-15	P4	3300	CAP=P ON ADAPTER
6GY5	6.3	BT-5072-0	203	28.0	LO-15	P4	3250	CAP=P ON ADAPTER

TUBE TYPE	FIL.	SELECTORS TESTER	CA5	BIAS VOLTS	FUNCT SHUNT	PUSH	MIN MUT.COND	NOTATIONS
6HB5	6.3	BV-4723-0	345	27.0	LO-6	P4	3000	
6HD5	6.3	BU-3792-0	234	23.0	LO-15	P4	3750	
6HE5	6.3	BU-9623-0	234	17.0	LO-6	P4	3000	
6HE7	6.3	BT-9528-0	023	25.0	LO-15	P4	3800	PENTODE SECT.
	6.3	BT-0204-0	003	0.0	SH-84	P3		DIODE SECT., NOTE 1
6HF5	6.3	BU-9032-0	234	40.0	LO-6	P4	2800	CAP=P ON ADAPTER
6HJ5	6.3	BV-4792-3	345	26.0	LO-6	P4	2000	
6HS5	6.3	BV-2704-3	005	0.0	LO-15	P4	9400	
6J9	6.3	EV-7801-0	100	1.6	LO-6	P4	2750	TRIODE NO.1
	6.3	EV-9601-0	100	1.6	LO-6	P4	2750	TRIODE NO.2
	6.3	EV-2103-0	000	1.6	LO-6	P4	2750	TRIODE NO.3
6J10	6.3	BS-7468-5	002	1.3	LO-6	P4	375	PENTODE NO.1
	6.3	BV-4923-0	045	3.2	LO-15	P4	4000	PENTODE NO.2
6J11	6.3	BU-3978-2	234	1.0	LO-15	P4	6500	PENTODE NO.1
	6.3	BX-5326-4	007	1.0	LO-15	P4	6500	PENTODE NO.2
6JB6	6.3	EV-2013-8	000	8.0	HI-15	P1,4	4000	CAP=P ON ADAPTER, NOTE 2
6JE6	6.3	EV-2073-8	000	14.0	LO-6	P4	3250	CAP=P ON ADAPTER PLT-SCRN LOW
6JF6	6.3	EV-2073-8	000	12.0	LO-15	P1,4	3600	CAP=P ON ADAPTER,NOTE 2
6JG6	6.3	EV-2973-6	000	12.0	LO-15	P1,4	3600	NOTE 2
6JM6	6.3	BW-5032-4	406	19.0	LO-15	P4	4100	CAP=P ON ADAPTER
6JN6	6.3	BW-5732-4	056	19.0	LO-15	P4	4100	
6JS6A	6.3	BW-5032-4	006	40.0	LO-6	P4	2500	CAP=P ON ADAPTER
6JT6	6.3	EV-2973-6	000	22.0	HI-15	P4	3800	
6JU6	6.3	EV-2013-8	000	27.0	LO-15	P4	3000	CAP=P ON ADAPTER
6JZ6	6.3	BW-5032-4	006	28.0	LO-15	P4	3450	CAP=P ON ADAPTER
6JZ8	6.3	BS-7489-0	002	12.0	LO-15	P4	3500	PENTODE SECT.
	6.3	BV-3204-0	345	6.0	LO-6	P4	1050	TRIODE SECT.
6K11	6.3	BT-9204-8	203	4.0	LO-6	P4	1550	TRIODE NO.1
	6.3	BS-7506-8	002	1.5	LO-6	P4	850	TRIODE NO.2
	6.3	BV-4203-8	045	1.5	LO-6	P4	850	TRIODE NO.3
6KD6	6.3	BW-5032-4	006	41.0	LO-15	P4	3100	CAP=P ON ADAPTER
6KM6	6.3	EV-2073-8	000	37.0	LO-6	P4	2500	CAP=P ON ADAPTER
6KN6	6.3	BW-5032-4	006	30.0	LO-15	P4	3100	CAP=P ON ADAPTER
6KY8	6.3	EV-2673-0	000	15.0	LO-15	P4	3450	PENTODE SECT.
	6.3	EV-9801-0	000	2.2	LO-6	P4	900	TRIODE SECT.
6LB6	6.3	BW-5032-4	006	14.0	LO-15	P4	4200	CAP=P. PLT-SCRN LOW.
6LF6	6.3	BW-5032-4	006	14.0	LO-15	P4	4100	CAP=P ON ADAPTER. PLT-SCRN LOW.
6LG6	6.3	BT-5024-0	023	10.0	LO-15	P4	4550	CAP=P ON ADAPTER. PLT-SCRN LOW.
6LR6	6.3	BW-5032-4	006	50.0	LO-6	P4	2270	CAP=P ON ADAPTER.
6LR8	6.3	EV-2673-0	000	15.0	LO-15	P4	3800	PENTODE SECT.
	6.3	EV-9801-0	000	3.3	LO-6	P4	1700	TRIODE SECT.
6LU8	6.3	BS-6489-0	002	15.0	LO-15	P4	3800	PENTODE SECT.
	6.3	BV-3204-0	345	3.3	LO-6	P4	1700	TRIODE SECT.
6M11	6.3	BW-2534-0	456	1.2	LO-15	P4	6700	PENTODE SECT.
	6.3	BS-8709-0	002	2.1	LO-15	P4	3400	TRIODE NO.1
	6.3	BS-5604-0	002	2.1	LO-15	P4	3400	TRIODE NO.2
6MD8	6.3	EV-6307-0	000	5.0	LO-6	P4	2650	TRIODE NO.1
	6.3	EV-8207-0	000	5.0	LO-6	P4	2650	TRIODE NO.2
	6.3	EV-9107-0	000	5.0	LO-6	P4	2650	TRIODE NO.3
6MF8	6.3	BS-7489-0	002	9.0	LO-15	P4	3100	PENTODE SECT.
	6.3	BV-3204-0	345	2.6	LO-6	P4	2500	TRIODE SECT.
6MJ8	6.3	BV-4203-0	045	06.0	H1-6	P4	1730	TRIODE NO.1.
	6.3	BV-2403-0	205	06.0	H1-6	P4	1730	TRIODE NO.2.
	6.3	BS-8603-0	002	06.0	H1-6	P4	1730	TRIODE NO.3.
6MN8	6.3	BS-8603-0	002	03.0	LO-6	P4	3500	TRIODE NO.1
	6.3	BV-2403-0	205	03.0	LO-6	P4	3500	TRIODE NO.2
	6.3	BV-4203-0	045	03.0	LO-6	P4	3500	TRIODE NO.3

TUBE TYPE	FIL.	SELECTORS TESTER	SELECTORS CAS	BIAS VOLTS	FUNCT SHUNT	PUSH	MIN MUT.COND	NOTATIONS
6N-H10	6.3	BT-4208-0	103	02.5	HI-3	P4	1700	PLT-SCRN LOW.
6N-L7	6.3	BT-4208-0	103	28.0	LO-6	P4	2140	
6Q11	6.3	BT-9204-8	203	4.0	LO-6	P4	1550	TRIODE NO.1
	6.3	BS-7506-8	002	1.5	LO-6	P4	850	TRIODE NO.2
	6.3	BV-4203-8	045	1.5	LO-6	P4	850	TRIODE NO.3
6T9	6.3	BU-8329-0	234	1.7	LO-15	P4	5100	PENTODE SECT.
	6.3	BT-4205-0	003	1.5	LO-6	P4	1200	TRIODE SECT.
6T10	6.3	BU-8329-0	234	3.3	LO-15	P4	1100	PENTODE NO.1
	6.3	BU-3762-5	004	3.0	LO-6	P4	625	PENTODE NO.2
6U9	6.3	FW-3782-4	000	1.4	LO-3	P4	7800	PENTODE SECT. USE HICKOK ADAPTER SA-11 CODE NO. 1050-177
	6.3	FW-2901-0	200	5.0	LO-6	P4	2700	TRIODE SECT.
6V9	6.3	FW-3741-2	000	2.5	LO-6	P4	1700	HEPTODE SECT. USE HICKOK ADAPTER SA-11 CODE NO. 1050-177
	6.3	FW-8109-0	100	2.0	LO-15	P4	5400	TRIODE SECT.
6X9	6.3	FW-3782-4	000	1.7	LO-30	P4	7500	PENTODE SECT. USE HICKOK ADAPTER SA-11 CODE NO. 1050-177
	6.3	FW-2901-0	200	1.0	LO-6	P4	2900	TRIODE SECT.
6Y9	6.3	FW-8197-0	100	3.0	LO-30	P4	7500	PENTODE NO. 1 USE HICKOK ADAPTER SA-11 CODE NO. 1050-177
	6.3	FW-1432-0	000	2.0	LO-15	P4	5400	PENTODE NO. 2
6U10	6.3	BT-9204-0	203	4.3	LO-6	P4	1350	TRIODE NO.1
	6.3	BS-7506-0	002	1.3	LO-6	P4	850	TRIODE NO.2
	6.3	BV-4203-0	045	4.3	LO-6	P4	1350	TRIODE NO.3
6Y10	6.3	BU-8329-0	234	3.5	LO-15	P4	5300	PENTODE NO.1
	6.3	BU-3762-5	004	2.4	LO-6	P4	1750	PENTODE NO.2
6Z10	6.3	BS-7468-5	002	1.3	LO-6	P4	375	PENTODE NO.1
	6.3	BV-4923-0	045	3.2	LO-15	P4	4000	PENTODE NO.2
8AC9	7.5	BU-9328-7	234	1.5	LO-15	P4	5700	PENTODE SECT.
	7.5	BS-0304-0	002	0.0	SH-74	P1		DIODE NO.1, NOTE 1
	7.5	BU-0203-0	004	0.0	SH-74	P1		DIODE NO.2, NOTE 1
8AC10	10.0	BT-9204-0	203	01.0	HI-3	P4	1200	TRIODE NO.1 ADJUST =LINE TEST= TO 83
	10.0	BS-7506-0	002	01.0	HI-3	P4	1200	TRIODE NO.2
	10.0	BV-4203-0	045	01.0	HI-3	P4	1200	TRIODE NO.3
8AR11	7.5	BU-2893-7	234	0.5	LO-15	P4	5000	PENTODE NO.1
	7.5	BX-5236-4	007	0.5	LO-15	P4	5000	PENTODE NO.2
8B10	7.5	BS-5607-0	002	6.5	LO-6	P4	1500	TRIODE NO.1
	7.5	BV-3402-0	005	6.5	LO-6	P4	1500	TRIODE NO.2
	7.5	BT-0209-0	203	0.0	SH-59	P1		DIODE NO.1, NOTE 1
	7.5	BS-0809-0	002	0.0	SH-59	P1		DIODE NO.2,NOTE 1
8BA11	7.5	BS-4638-7	002	1.0	HI-3	P4	400	PENTODE NO.1
	7.5	BW-4238-5	006	1.0	HI-3	P4	400	PENTODE NO.2
	7.5	BU-9302-0	234	7.0	LO-6	P4	1000	TRIODE SECT.
8BM11	7.5	BU-3792-8	234	1.0	LO-15	P4	5350	PENTODE NO.1
	7.5	BX-6235-4	007	1.7	LO-15	P4	5000	PENTODE NO.2
8BN11	7.5	BU-7398-2	234	1.0	LO-15	P4	6600	PENTODE NO. 1
	7.5	BX-3542-6	007	1.0	LO-15	P4	6600	PENTODE NO. 2
8BQ11	7.5	BU-2893-7	234		LO-15	P4	4800	PENTODE NO.1, NOTE 4 SELF BIAS RESISTOR 56 OHMS, 10%
	7.5	BX-5236-4	007		LO-15	P4	7550	PENTODE NO.2, NOTE 4 SELF BIAS RESISTOR 56 OHMS, 10%
8BU11	7.5	BU-8293-0	234	2.0	LO-15	P4	4000	PENTODE SECT.
	7.5	BS-6705-0	002	1.8	LO-15	P4	4400	TRIODE NO.1
	7.5	BV-4302-0	005	1.8	LO-15	P4	4400	TRIODE NO.2

TUBE TYPE	FIL.	SELECTORS TESTER	SELECTORS CAS	BIAS VOLTS	FUNCT SHUNT	PUSH	MIN MUT.COND	NOTATIONS
8U9	7.5	FW-3782-4	000	1.4	LO-3	P4	7800	PENTODE SECT. USE HICKOK ADAPTER SA-11 CODE NO. 1050-177
	7.5	FW-2901-0	200	5.0	LO-6	P4	2700	TRIODE SECT.
8X9	7.5	FW-3782-4	000	1.7	LO-30	P4	7500	PENTODE SECT. USE HICKOK ADAPTER SA-11 CODE NO. 1050-177
	7.5	FW-2901-0	200	1.0	LO-6	P4	2900	TRIODE SECT.
9BJ11	10.0	BU-3792-8	234	4.0	HI-3	P4	950	PENTODE NO.1
	10.0	BX-6235-4	007	1.5	LO-15	P4	4700	PENTODE NO.2
9V9	10.0	FW-3741-2	000	2.5	LO-6	P4	1700	HEPTODE SECT. USE HICKOK ADAPTER SA-11 CODE NO. 1050-177
	10.0	FW-8109-0	100	2.0	LO-15	P4	5400	TRIODE SECT.
10AL11	10.0	BU-8329-0	234	2.8	LO-15	P4	3900	PENTODE NO.1
	10.0	BV-3672-4	005	8.0	HI-3	P4	250	PENTODE NO.2
10GF7	10.0	EV-9801-0	000	1.8	LO-6	P4	850	TRIODE NO.1
	10.0	EV-2603-0	000	21.0	LO-6	P4	2750	TRIODE NO.2
10J10	10.0	BS-7468-5	002	1.3	LO-6	P4	375	PENTODE NO.1
	10.0	BV-4923-0	045	3.2	LO-15	P4	4000	PENTODE NO.2
11AR11	10.0	BU-2893-7	234	0.7	LO-15	P4	5250	PENT NO.1)ADJUST = LINE
	10.0	BX-5236-4	007	0.7	LO-15	P4	5250	PENT NO.2)TEST=TO 91V
11BQ11	12.6	BU-2893-7	234	0.9	LO-15	P4	5000	PENT NO.1)ADJUST=LINE
	12.6	BX-5236-4	007	1.4	LO-15	P4	6300	PENT NO.2)TEST= TO 90V
11BT11	10.0	BV-4238-6	345	1.6	LO-30	P4	12000	PENTODE SECT.
	10.0	BS-5706-0	002	1.0	LO-6	P4	3150	TRIODE NO.1
	10.0	BS-3904-0	002	3.0	LO-6	P4	3150	TRIODE NO.2
11CA11	10.0	BU-8329-7	234	02.0	HI-15	P4	6300	PENTODE SECT.
	10.0	BS-6405-0	002	05.0	HI-3	P4	1500	TRIODE NO.1
	10.0	BU-3207-0	004	03.5	HI-3	P4	1500	TRIODE NO.2
11FY7	10.0	BU-2309-0	234	2.0	LO-6	P4	800	TRIODE NO. 1
	10.0	BS-3507-0	002	17.0	LO-6	P4	3100	TRIODE NO.2
11Y9	10.0	FW-8197-0	100	3.0	LO-30	P4	7500	PENTODE NO.1 USE HICKOK ADAPTER SA-11 CODE NO. 1050-177
	10.0	FW-1432-0	000	2.0	LO-15	P4	5400	PENTODE NO. 2
12AE10	12.6	BU-8329-0	234	11.0	LO-6	P4	2500	PENTODE NO.1
	12.6	BU-3762-5	004	5.0	LO-6	P4	600	PENTODE NO.2
12AL11	12.6	BU-8329-0	234	2.8	LO-15	P4	3900	PENTODE NO.1
	12.6	BV-3672-4	005	8.0	HI-3	P4	250	PENTODE NO.2
12AX3	12.6	BS-0407-0	002	0.0	SH-67	P3		NOTE 1
12AY3	12.6	EV-0209-0	000	0.0	SH-78	P3		NOTE 1
12BE3	12.6	BT-0207-0	203	0.0	SH-75	P3		NOTE 1
12BF11	12.6	BU-8329-0	234	8.0	LO-15	P4	4500	PENTODE NO.1
	12.6	BU-3762-5	004	6.5	HI-3	P4	200	PENTODE NO.2
12BS3	12.6	EV-0209-0	000	0.0	SH-65	P3		NOTE 1
12BT3	12.6	BS-0407-0	002	0.0	SH-80	P3		NOTE 1
12BV11	12.6	BU-7298-3	234	2.0	LO-6	P4	2300	PENTODE NO. 1
	12.6	BX-6345-2	007	2.0	LO-6	P4	2300	PENTODE NO. 2
12CK3	12.6	EV-0209-0	000	0.0	SH-87	P3		NOTE 1
12CL3	12.6	EV-0209-0	000	0.0	SH-87	P3		NOTE 1
12DW4A	12.6	EV-0209-0	000	0.0	SH-79	P3		NOTE 1.
12G11	12.6	BU-8329-0	234	17.0	LO-6	P4	2800	PENTODE NO.1
	12.6	BV-3672-4	005	1.5	HI-3	P4	500	PENTODE NO.2
12GE5	12.6	BV-4723-0	345	22.0	LO-15	P4	3000	
12GJ5	12.6	EV-6073-0	000	8.0	HI-15	P1,4	4000	CAP=P ON ADAPTER, NOTE 2
12GT5	12.6	EV-6973-0	000	8.0	HI-15	P1,4	4000	NOTE 2
12GV5	12.6	BU-9032-0	234	17.0	LO-15	P4	3300	CAP=P ON ADAPTER
12HE7	12.6	BT-9528-0	023	25.0	LO-15	P4	3800	PENTODE SECT.
	12.6	BT-0204-0	003	0.0	SH-84	P3		DIODE SECT. NOTE 1

TUBE TYPE	FIL.	SELECTORS TESTER	SELECTORS CA5	BIAS VOLTS	FUNCT SHUNT	PUSH	MIN MUT.COND	NOTATIONS
12JB6	12.6	EV-2013-8	000	8.0	HI-15	P1,4	4000	CAP=P ON ADAPTER, NOTE 2
12JM6	12.6	BW-5732-4	056	19.0	LO-15	P4	4100	
12JN6	12.6	BW-5732-4	056	19.0	LO-15	P4	4100	
12JS6A	12.6	BW-5032-4	006	40.0	LO-6	P4	2500	CAP=P ON ADAPTER
12JT6	12.6	EV-2973-6	000	22.0	HI-15	P4	3800	
12MD8	12.6	EV-6307-0	000	5.0	LO-6	P4	2650	TRIODE NO. 1
	12.6	EV-8207-0	000	5.0	LO-6	P4	2650	TRIODE NO. 2
	12.6	EV-9107-0	000	5.0	LO-6	P4	2650	TRIODE NO. 3
12T10	12.6	BU-8329-0	234	3.3	LO-15	P4	1100	PENTODE NO.1
	12.6	BU-3762-5	004	3.0	LO-6	P4	625	PENTODE NO.2
13CW4	12.6	BT-4208-0	103	0.5	LO-15	P4	4400	PLT-SCRN LOW
13FM7	12.6	BU-2309-0	234	2.0	LO-6	P4	1250	TRIODE NO.1
	12.6	BS-8507-0	002	24.0	LO-6	P4	2500	TRIODE NO.2
13GF7	12.6	EV-9801-0	000	1.8	LO-6	P4	850	TRIODE NO.1
	12.6	EV-2603-0	000	21.0	LO-6	P4	2750	TRIODE NO.2
13J10	12.6	BS-7468-5	002	1.3	LO-6	P4	375	PENTODE NO.1
	12.6	BV-4923-0	045	3.2	LO-15	P4	4000	PENTODE NO.2 PLATE VOLTS=LOW
13JZ8	12.6	BS-7489-0	002	12.0	LO-15	P4	3500	PENTODE SECT.
	12.6	BV-3204-0	345	06.0	LO-6	P4	1050	TRIODE SECT.
13V10	12.6	BU-8329-0	234	5.0	LO-6	P4	3800	PENTODE NO.1
	12.6	BU-3762-5	004	4.5	LO-6	P4	650	PENTODE NO.2
13Z10	12.6	BS-7468-5	002	1.3	LO-6	P4	375	PENTODE NO.1
	12.6	BV-4923-0	045	3.2	LO-15	P4	4000	PENTODE NO.2
14BL11	12.6	BV-4238-0	345	2.3	LO-30	P4	9500	PENTODE SECT.
	12.6	BS-5706-0	002	0.7	LO-15	P4	2800	TRIODE NO.1
	12.6	BS-3904-0	002	2.6	LO-15	P4	3100	TRIODE NO.2
14BR11	12.6	BW-2534-0	056	1.5	LO-15	P4	6300	PENTODE SECT.
	12.6	BS-8605-0	002	1.5	LO-15	P4	3200	TRIODE NO.1
	12.6	BT-2907-0	203	1.5	LO-15	P4	2800	TRIODE NO.2
15AB9	17.0	FW-9781-0	100	02.5	LO-15	P4	5100	TETRODE NO.1. USE HICKOK ADAPTER SA-11. CODE NO. 1050-177. ADJUST =LINE TEST= TO 90V.
	17.0	FW-3124-0	000	02.5	LO-15	P4	5100	TETRODE NO.2. USE HICKOK ADAPTER SA-11. CODE NO. 1050-177 ADJUST =LINE TEST= TO 90V.
15AF11	12.6	BV-4239-0	345	3.3	LO-15	P4	7600	PENT SECT)ADJUST=LINE
	12.6	BS-6805-0	002	2.0	LO-6	P4	3700	TRIODE 1)TEST = TO
	12.6	BS-3407-0	002	2.0	LO-6	P4	3000	TRIODE 2) 116V
15BD11	12.6	BV-4239-0	345	4.1	LO-15	P4	5000	PENT SECT)ADJUST =LINE
	12.6	BS-6805-0	002	1.7	LO-6	P4	3500	TRIODE 1)TEST = TO
	12.6	BS-3407-0	002	2.6	LO-6	P4	2750	TRIODE 2) 110V.
15FM7	12.6	BU-2309-0	234	2.7	LO-6	P4	1250	TRIODE 1) ADJUST=LINE
	12.6	BS-8507-0	002	30.0	LO-6	P4	2500	TRIODE 2)TEST= TO 114V.
15FY7	12.6	BU-2309-0	234	2.2	LO-6	P4	1000	TRIODE 1)ADJUST=LINE
	12.6	BS-3507-0	002	24.0	LO-15	P4	3750	TRIODE 2)TEST=TO 116V.
15KY8	12.6	EV-2673-0	000	6.0	LO-6	P4	2050	PENT SECT)ADJUST=LINE
	12.6	EV-9801-0	000	1.6	HI-3	P4	325	TRIODE SECT)TEST=TO 76V.
16AK9	20.0	BS-8597-0	002	09.5	HI-15	P4	3900	PENTODE SECT. ADJUST =LINE TEST= TO 89V.
	20.0	BU-2307-0	234	03.5	LO-15	P4	850	TRIODE NO.1.
	20.0	BU-3207-0	004	04.5	LO-15	P4	820	TRIODE NO.2.
16GY5	20.0	BU-9032-0	234	15.0	LO-15	P4	3200	CAP=P ON ADAPTER. ADJUST =LINE TEST= TO 80V.
16KA6	20.0	BW-5032-4	206	28.0	LO-15	P4	3500	CAP=P ON ADAPTER. ADJUST =LINE TEST= TO80V

TUBE TYPE	FIL.	SELECTORS TESTER	SELECTORS CAS	BIAS VOLTS	FUNCT SHUNT	PUSH	MIN MUT.COND	NOTATIONS
16Y9	20.0	FW-8197-0	100	3.0	LO-30	P4	7500	PENTODE NO. 1 SET =LINE TEST=TO 90 V. USE HICKOK ADAPTER SA-11 CODE NO. 1050-177
	20.0	FW-1432-0	000	2.0	LO-15	P4	5400	PENTODE NO. 2
17AB9	20.0	FW-9781-0	100	2.5	LO-15	P4	5100	TETRODE NO. 1 SET =LINE TEST=TO 90 V. USE HICKOK ADAPTER SA-11 CODE NO. 1050-177
	20.0	FW-3124-0	000	2.5	LO-15	P4	5100	TETRODE NO. 2
17AB10	20.0	BS-7468-5	002	1.3	LO-6	P4	375	LIMITER GRID)SET PLT-SCRN LOW)=CATH ACT=
	20.0	BS-5468-7	002	0.0	LO-6	P4	575	QUADRATR GRID)SWITCH TO PLT-SCRN LOW *=TEST=
	20.0	BV-4923-0	045	10.0	LO-15	P4	3800	PENTODE NO.2)POSITION PLT-SCRN NORM)
17AX3	20.0	BS-0407-0	002	0.0	SH-61	P3		ADJ=LINE TEST=TO 86V NOTE 1
17AY3	20.0	EV-0209-0	000	0.0	SH-77	P3		ADJ=LINE TEST=TO 74V. NOTE 1
17BE3	20.0	BT-0207-0	203	0.0	SH-69	P3		ADJ=LINE TEST=TO 86V. NOTE 1
17BF11	20.0	BU-8329-0	234	8.0	LO-15	P4	4500	PENT.1)SET=CATH.ACT=
	20.0	BU-3762-5	004	6.5	HI-3	P4	200	PENT.2)SWITCH TO =TEST=
17BH3	20.0	EV-0209-0	000	0.0	SH-77	P3		ADJ=LINE TEST=TO 74V. NOTE 1
17BS3	20.0	EV-0209-0	000	0.0	SH-53	P3		ADJ=LINE TEST= TO 86V. NOTE 1
17BZ3	20.0	BT-0207-0	203	0.0	SH-86	P3		ADJ=LINE TEST=TO 85V. NOTE 1
17C9	20.0	EV-7986-0	000	2.3	LO-6	P4	2500	TETR.1)ADJUST =LINE
	20.0	EV-1326-0	600	2.3	LO-6	P4	2500	TETR.2)TEST= TO 80V.
17CK3	20.0	EV-0209-0	000	0.0	SH-84	P3		ADJUST=LINE TEST=TO 86V, NOTE 1
17CL3	20.0	EV-0209-0	000	0.0	SH-84	P3		ADJUST=LINE TEST=TO 86V, NOTE 1
17DW4A	20.0	EV-0209-0	000	0.0	SH-84	P3		ADJUST =LINE TEST= TO 86
17GE5	20.0	BV-4723-0	345	5.0	LO-15	P1,4	3500	ADJ=LINE TEST=TO 85V. NOTE 2
17GJ5	20.0	EV-6073-0	000	8.0	HI-15	P1,4	4000	CAP=P ON ADAPTER. SET =CATH ACT=SWITCH TO=TEST = POSITION. NOTE 2
17GT5	20.0	EV-6973-0	000	8.0	HI-15	P1,4	4000	SET =CATH ACT=SWITCH TO =TEST=POSITION. NOTE 2
17GV5	20.0	BU-9032-0	234	5.0	LO-15	P1,4	4000	CAP=P ON ADAPTER. SET =LINE TEST= TO 85V.NOTE2
17J86	20.0	EV-2013-8	000	8.0	HI-15	P1,4	4000	CAP=P ON ADAPTER. SET =CATH ACT=SWITCH TO=TEST = POSITION. NOTE 2
17JG6	20.0	EV-2973-6	000	12.0	LO-15	P1,4	3600	ADJ =LINE TEST=TO 90V. NOTE 2
17JM6	20.0	BW-5032-4	406	19.0	LO-15	P4	4100	CAP=P ON ADAPTER. SET =CATH ACT=SWITCH TO =TEST=POSITION.
17JN6	20.0	BW-5732-4	056	19.0	LO-15	P4	4100	SET =CATH ACT= SWITCH TO =TEST= POSITION.
17JT6	20.0	EV-2973-6	000	22.0	HI-15	P4	3800	SET =CATH ACT= SWITCH TO =TEST= POSITION.
17JZ8	20.0	BS-7489-0	002	11.0	LO-6	P4	2750	PENT.SECT)SET=LINE TEST=
	20.0	BV-3204-0	345	6.0	LO-6	P4	850	TRIO.SECT)TO 89V.

TUBE TYPE	FIL.	SELECTORS TESTER	SELECTORS CAS	BIAS VOLTS	FUNCT SHUNT	PUSH	MIN MUT.COND	NOTATIONS
17LD8	20.0	EV-2673-0	000	9.0	HI-6	P4	2800	PENT.SECT)ADJUST =LINE
	20.0	EV-9801-0	000	7.0	HI-3	P4	550	TRIO.SECT)TEST= TO 87V.
17X10	20.0	BS-7468-5	002	1.3	LO-6	P4	375	LIMITER GRID *SET PLT-SCRN LOW *=CATH ACT=
	20.0	BS-5468-7	002	0.0	LO-6	P4	575	QUADRATR GRID*SWITCH TO PLT-SCRN LOW *=TEST=
	20.0	BV-4923-0	045	10.0	LO-15	P4	3800	PENTODE NO.2 *POSITION PLT-SCRN NORM*
19CG3	20.0	BS-0407-0	002	0.0	SH-85	P3		NOTE 1
19Q9	20.0	EV-1327-6	700	1.5	LO-15	P4	4000	PENTODE SECT.
	20.0	EV-8907-6	000	1.8	LO-15	P4	4250	TRIODE SECT.
21GY5	20.0	BT-5072-0	203	28.0	LO-15	P4	3250	CAP=P ON ADAPTER
21HB5	20.0	BV-4723-0	345	27.0	LO-6	P4	3000	
21HD5	20.0	BU-3792-0	234	23.0	LO-15	P4	3750	
21HJ5	20.0	BV-4792-3	345	26.0	LO-6	P4	2000	
21JV6	20.0	BW-5732-4	456	25.0	LO-15	P4	4100	
21JZ6	20.0	BW-5032-4	006	28.0	LO-15	P4	3450	CAP=P ON ADAPTER
21KA6	20.0	BW-5032-4	206	28.0	LO-15	P4	3500	CAP=P ON ADAPTER
21LG6	20.0	BT-5024-0	023	10.0	LO-15	P4	4550	CAP=P ON ADAPTER. PLATE VOLTS=LOW.
21LR8	20.0	EV-2673-0	000	15.0	LO-15	P4	3800	PENTODE SECT.
	20.0	EV-9801-0	000	3.3	LO-6	P4	1700	TRIODE SECT.
21LU8	20.0	BS-6489-0	002	15.0	LO-15	P4	3800	PENTODE SECT.
	20.0	BV-3204-0	345	3.3	LO-6	P4	1700	TRIODE SECT.
228H3	20.0	EV-0209-0	000	0.0	SH-77	P3		ADJ=LINE TEST=TO 110V. NOTE 1
228W3	25.0	BT-0207-0	203	0.0	SH-85	P3		ADJ=LINE TEST= TO 90V. NOTE 1
22JF6	20.0	EV-2073-8	000	12.0	LO-15	P1,4	3600	CAP=P ON ADAPTER NOTE 2
22JG6	20.0	EV-2973-6	000	12.0	LO-15	P1,4	3600	NOTE 2
22JU6	20.0	EV-2073-8	000	27.0	LO-15	P4	3000	CAP=P ON ADAPTER.
22KM6	20.0	EV-2073-8	000	37.0	LO-6	P4	2500	CAP=P ON ADAPTER
23JS6A	25.0	BW-5032-4	006	40.0	LO-6	P4	2500	CAP=P ON ADAPTER.
23Z9	25.0	BS-8597-0	002	12.0	LO-15	P4	3500	PENTODE SECT.
	25.0	BU-2307-0	234	3.0	LO-6	P4	1900	TRIODE NO.1
	25.0	BU-3207-0	004	7.0	LO-6	P4	1100	TRIODE NO.2
248F11	25.0	BU-8329-0	234	16.0	LO-15	P4	5400	PENTODE NO.1.
	25.0	BU-3762-5	004	02.2	HI-3	P4	630	PENTODE NO.2.
24GA7	25.0	BS-4735-0	002	18.0	LO-6	P4	2900	PENTODE SECT.
	25.0	BT-0208-0	023	0.0	SH-73	P3		DIODE SECT NOTE 1
24JE6A	25.0	EV-2073-8	000	14.0	LO-6	P4	3250	CAP=P ON ADAPTER PLT-SCRN LOW
24JZ8	25.0	BS-7489-0	002	10.0	LO-15	P4	5500	PENTODE SECT.
	25.0	BV-3204-0	345	09.0	HI-3	P4	670	TRIODE SECT.
25CG3	25.0	BS-0407-0	002	0.0	SH-85	P3		NOTE 1
25CM3	25.0	EV-0279-0	000	0.0	SH-89	P3		SHURT ON 4, NOTE 1
28HD5	25.0	BU-3792-0	234	23.0	LO-15	P4	3750	
30AG11	35.0	BS-5604-0	002	0.8	LO-15	P4	4900	TRIODE NO.1)ADJUST
	35.0	BS-8709-0	002	0.8	LO-15	P4	4900	TRIODE NO.2)=LINE
	35.0	BU-0203-0	234	0.0	SH-53	P2		DIODE NO.1)TEST= TO
	35.0	BU-0302-0	004	0.0	SH-53	P2		DIODE NO.2)84V. NOTE 1
30HJ5	25.0	BV-4792-3	345	26.0	LO-6		2000	
30KD6	35.0	BW-5032-4	006	26.0	LO-6	P4	3500	CAP = P ON ADAPTER. ADJUST =LINE TEST= TO 80
31JS6A	35.0	BW-5032-4	006	40.0	LO-6	P4	2500	CAP=P ON ADAPTER
32GA7	35.0	BS-4735-0	002	18.0	LO-6	P4	2900	PENTODE SECT.
	35.0	BT-0208-0	023	0.0	SH-73	P3		DIODE SECT. NOTE 1
33GT7	35.0	BU-3528-0	234	11.0	LO-15	P1,4	3150	PENTODE SECT. NOTE 2
	35.0	BT-0204-0	003	0.0	SH-88	P3		DIODE SECT. NOTE 1
33GY7	35.0	BU-2538-0	234	11.0	LO-15	P1,4	3150	PENTODE SECT. NOTE 2
	35.0	BT-0204-0	003	0.0	SH-88	P3		DIODE SECT. NOTE 1

TUBE TYPE	FIL.	SELECTORS TESTER	SELECTORS CA5	BIAS VOLTS	FUNCT SHUNT	PUSH	MIN MUT.COND	NOTATIONS
33JV6	35.0	BW-5732-4	456	25.0	LO-15	P4	4100	
34CD3	35.0	BT-0207-0	203	0.0	SH-85	P3		NOTE 1
34CE3	35.0	BS-0407-0	002	0.0	SH-88	P3		NOTE 1
34CM3	35.0	EV-0279-0	000	0.0	SH-89	P3		NOTE 1
35LR6	35.0	BW-5032-4	006	50.0	LO-6	P4	2270	CAP=P ON ADAPTER.
36KD6	35.0	BW-5032-4	006	41.0	LO-15	P4	3100	CAP=P ON ADAPTER.
38HE7	35.0	BT-9528-0	023	30.0	HI-15	P4	4300	PENT.SECT
	35.0	BT-0204-0	003	0.0	SH-87	P3		DIODE SECT NUTE 1
38HK7	35.0	BT-9528-0	023	24.0	LO-15	P4	3100	PENTODE SECT.
	35.0	BT-0204-0	003	0.0	SH-87	P3		DIODE SECT NOTE 1
40KD6	35.0	BW-5032-4	006	41.0	LO-15	P4	3100	CAP=P ON ADAPTER
42KN6	50.0	BW-5032-4	006	30.0	LO-15	P4	3100	CAP=P ON ADAPTER ADJUST =LINE TEST=TO 92V
53HK7	50.0	BT-9528-0	023	24.0	LO-15	P4	3100	PENTODE SECT.
	50.0	BT-0204-0	003	0.0	SH-87	P3		DIODE SECT. NOTE 1.
58HE7	50.0	BT-9528-0	023	25.0	LO-15	P4	3800	PENTODE SECT.
	50.0	BT-0204-0	003	0.0	SH-84	P3		DIODE SECT. NOTE 1
7586	6.3	BT-4208-0	103	5.0	HI-6	P4	2000	PLT-SCRN LOW
7587	6.3	BT-4028-0	103	1.8	LO-15	P1,4	4400	CAP=P ON ADAPTER NOTE2
7868	6.3	EV-6973-0	000	3.0	LO-15	P4	6250	
7895	6.3	BT-4208-0	103	0.6	LO-15	P4	5000	PLT-SCRN LOW
7984	12.6	BV-2349-0	245	21.0	LO-6	P4	3300	
8056	6.3	BT-4208-0	103	0.0	SH-59	P1	----	SET FUNCTION SW ON SHUNT OK ABOVE 1300 ON 3000 SCALE.
8058	6.3	BS-0008-0	102	1.6	LO-15	P4	5200	CAP=P,SHELL=G ON ADAPTER
8149	12.6	BT-2789-0	203	20.0	LO-6	P4	2800	
8150	12.6	BT-2086-0	203	20.0	LO-6	P4	2800	CAP=P ON ADAPTER
8156	12.6	BU-2376-0	204	10.0	LO-6	P4	3100	
8203	6.3	BT-4208-0	103	5.0	LO-15	P4	2850	
8393	12.6	BT-4208-0	103	4.2	LO-15	P4	4100	
8458	12.6	EV-3872-0	000	05.0	LO-6	P4	2100	TETRODE 1.NOTE 6#2-,1+.
	12.6	EV-1672-0	000	05.0	LO-6	P4	2100	TETRODE 2.NOTE 6#3-,1+.
8628	6.3	BT-4208-0	103	1.0	LO-6	P4	630	PLT-SCRN LOW
ECC2000	6.3	FW-8709-1	000	4.0	LO-15	P4	6600	TRIODE NO. 1 USE HICKOK ADAPTER SA-11 CODE NO. 1050-177
	6.3	FW-3402-1	400	4.0	LO-15	P4	5400	TRIODE NO. 2
H-1112	2.0	BT-4028-0	103	01.8	LO-15	P1,4	4400	CAP=P ON ADAPTER. NOTE 2
H-1208	6.3	BT-4208-0	103	05.0	HI-6	P4	2000	PLT-SCRN LOW.
N30EL	6.3	BW-5032-4	006	14.0	LO-15	P4	4100	CAP=P ON ADAPTER. PLT-SCRN LOW.